PCT

REC'D 2 9 OCT 2001

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

13

Applicant's or agent's file reference		
H1-108PCT	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/mo	nth/year) Priority date (day/month/year)
PCT/JP00/04895	21/07/2000	23/07/1999
International Patent Classification (IPC) or n C12N15/12 Applicant	ational classification and IPC	
HELIX RESEARCH INSTITUTE et	al.	
and is transmitted to the applicant	according to Article 36.	ed by this International Preliminary Examining Authority
2. This REPORT consists of a total o	f 6 sheets, including this cover	sheet.
been amended and are the ba	sis for this report and/or sheets 07 of the Administrative Instruc	the description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).
This report contains indications relations	ating to the following items:	
I ⊠ Basis of the report		
I ⊠ Basis of the report II □ Priority	• •	
	oninion with regard to nevaltar	nventive step and industrial applicability
IV Lack of unity of invention		ivertive step and industrial applicability
V 🛛 Reasoned statement u		o novelty, inventive step or industrial applicability;
VI Certain documents cit		
VII Certain defects in the in	nternational application	
VIII Certain observations o	n the international application	i
Date of submission of the demand	Date o	f completion of this report
12/02/2001		2001
Name and mailing address of the international preliminary examining authority:		zed officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656	Halle,	F (100 m)

Telephone No. +49 89 2399 8537





International application No. PCT/JP00/04895

. Dasis of the report	١.	Basis	of the	e report
-----------------------	----	-------	--------	----------

• •	the and	the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:					
	1-2	23	as originally filed				
	Claims, No.:						
	1-1	6	as originally filed				
	Drawings, sheets:						
	1/1		as originally filed				
	Sequence listing part of the description, pages:						
		and part	or the description, pages.				
	1/2	7-27/27, as originally	filed				
2.	2. With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	These elements were available or furnished to this Authority in the following language: , which is:						
	☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
the language of publication of the international application (under Rule 48.3(b)).							
			anslation furnished for the purposes of international preliminary examination (under Rule				
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
	\boxtimes	contained in the inte	ernational application in written form.				
	\boxtimes		ne international application in computer readable form.				
			ntly to this Authority in written form.				
			ntly to this Authority in computer readable form.				
		The statement that	the subsequently furnished written sequence listing does not go beyond the disclosure in olication as filed has been furnished.				
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	amendments have r	resulted in the cancellation of				

		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been considered to go be	established as if (some of) the amendments had not been made, since they have bond the disclosure as filed (Rule 70.2(c)):	ee				
		(Any replacement st report.)	eet containing such amendments must be referred to under item 1 and annexed to t	hi				
6.		Additional observations, if necessary: see separate sheet						
111	. Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability					
1.	The obv	questions whether the countries, or to be industrementing the entire internation	e claimed invention appears to be novel, to involve an inventive step (to be non- ally applicable have not been examined in respect of:					
			••					
	☒	claims Nos. 1-16(par	lly).					
be	caus	e: £	e					
		the said international not require an interna	application, or the said claims Nos. relate to the following subject matter which does tional preliminary examination (<i>specify</i>):	3				
		the description, claim that no meaningful o	s or drawings (<i>indicate particular elements below</i>) or said claims Nos. are so unclea inion could be formed (<i>specify</i>):	ır				
		the claims, or said cla could be formed.	ims Nos. are so inadequately supported by the description that no meaningful opini	or				
	\boxtimes	no international sear	h report has been established for the said claims Nos. 1-16(partly).					
2.	A me and/ Instr	preliminary examination cannot be carried out due to the failure of the nucleotide ce listing to comply with the standard provided for in Annex C of the Administrative						
		the written form has r	ot been furnished or does not comply with the standard.					
			e form has not been furnished or does not comply with the standard.					
		,	with the standard.					

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

citations and explanations supporting such statement



International application No. PCT/JP00/04895

1. Statement

Novelty (N)

Yes: No:

Claims 1-16

Claims

Inventive step (IS)

Yes:

Claims 1-16

No: Claims

Industrial applicability (IA)

Yes:

Claims 1-16

No: Claims

2. Citations and explanations see separate sheet



ŧ

Point I.6

The application contains sequence listing sheets 1/27-27/27. 1.

Point III

2. The following comments only apply to the subject-matter of the claims searched according to the International search report, i.e. claims 1-16 (partly) corresponding to the first group of inventions relating to an isolated polynucleotide comprising SEQ ID NO:1 and/or encoding the polypeptide of SEQ ID NO: 2 or homologs thereof and the corresponding polypeptides, peptides, antibodies, probes, antisense molecules, methods of synthesis and methods of detection. The claims not searched according to the International search report, i.e. claims 1-16 (partly) corresponding to the remaining groups of inventions 2 to 4 will not be the subject of international preliminary examination (Rule 66.1(e) PCT).

Point V

3. In this report it is referred to the following documents:

D1: Database EMBL, Acc. No. AA 631 935

D2: WO 99/20750

Having regard to the prior art D1 and D2, the subject-matter of claims 1-16 (partly) 4. corresponding to the first group of inventions (see item 2 above) appears to be novel and to involve an inventive step. Said subject-matter is based on the more specific polynucleotide sequence defined as SEQ ID NO:1 and the polypeptide sequence defined as SEQ ID NO: 2 which are not anticipated by the prior art.

Although said subject-matter may be considered as novel an inventive, it does not appear to be sufficiently defined (Article 6 PCT). For example, in claim 1, part (a), it is referred to a coding region of a nucleotide sequence without specifying the function or the nature of the encoded protein. The same remark applies to claim 2 where it is referred to a partial peptide of the protein of claim 2. Furthermore, the wordings "a coding region of" or "a partial peptide of" do not enable the skilled





International application No. PCT/JP00/04895

person to determine with certainty which technical features are necessary to perform the invention according to the matter for which protection is sought.